PHILIPS

Philips Medical Systems

Barcode Reader

9890 010 84321

for
DigitalDiagnost / PCR

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Printed in Hamburg, Germany

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SERVICE MANUAL –UNIT

712

Barcode Reader

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File: Barcode Reader_DiDi_u_PCR_988_00331_AA

List of pages and drawings (LOPAD)

Manual Order No: 4512 988 00331
released: 05/2005

1...12 (05.0)

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1. INTRODUCTION AND TECHNICAL DATA

1.1. PURPOSE

This Barcode Reader is a linear imaging hand held scanner.
It is used to assist in the entry of patient data or numbered PCR cassettes.

1.2. ITEMS SUPPLIED

- Barcode Reader IT 3800 LR-12
- USB interface cable
- USB extension cable 2.5 m
- User's guide of the manufacturer
- Holding device (stand)
- This service manual

1.3. COMPATIBILITY

- DigitalDiagnost ≥1.3.1 only with SUN Blade
- PCR User Terminal software 1.5L2 -->
- PCR USIT PC from IBM300 PL onwards

1.4. TECHNICAL DATA

See User's Guide of the manufacturer.

1.5. SAFETY INFORMATION

N.A.

1.6. COMPLIANCE INFORMATION

See User's Guide of the manufacturer.

1.7. EQUIPMENT IDENTIFICATION AND LABELING

See User's Guide of the manufacturer.

1.8. ABBREVIATIONS AND DEFINITIONS

BCR: Barcode Reader, Scanner
PCR: Philips Computed Radiography

1.9. MANUAL HISTORY

Date	Version	Name	Reason of changes
2004/11/08	1.0	Röhling/Freytag	Update for DiDi & PCR

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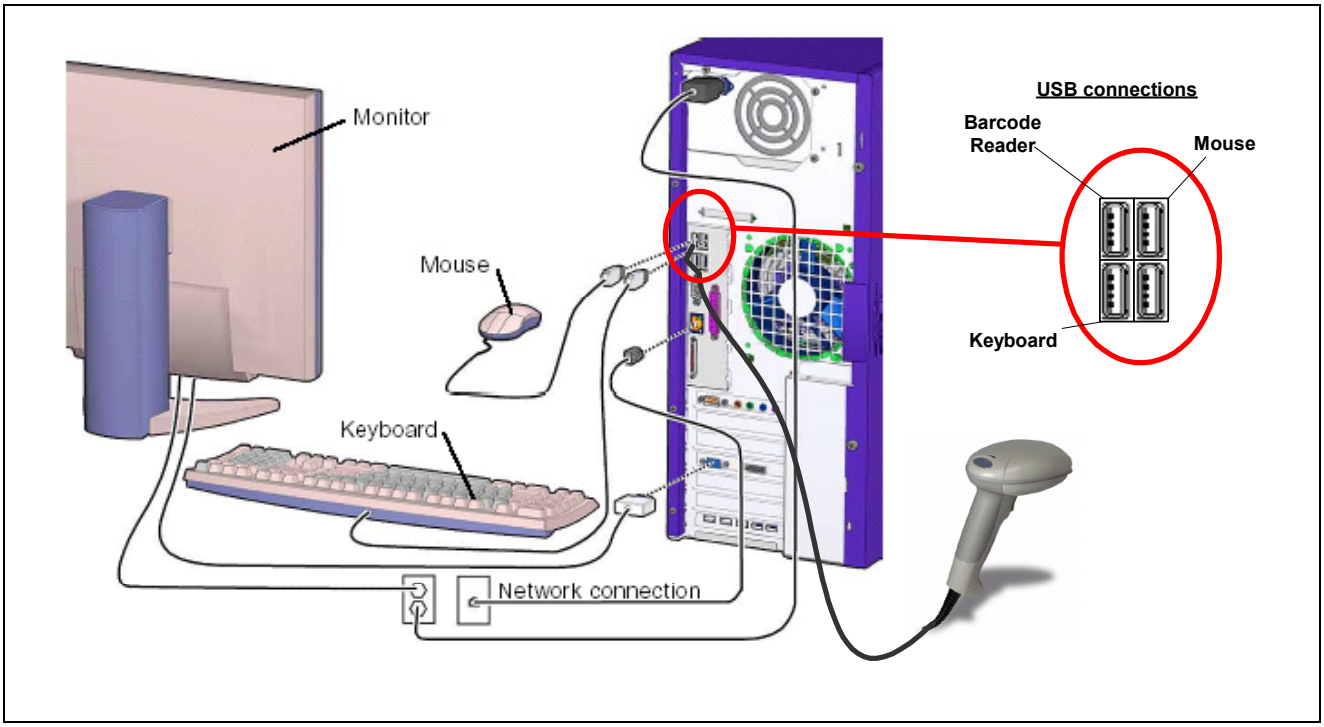
2. INSTALLATION

2.1. INSTALLATION AT A DIGITALDIAGNOST

- Connect the scanner at the SUN computer shown in the figure below as example.

NOTE:

The Barcode Reader can only be used in a pre-defined USB slot. See drawing below to identify the correct slot.
If no Barcode Reader is connected the keyboard and mouse can be connected to any other USB slot.
SUN recommends the two upper ports.
Barcode Reader connection at DigitalDiagnost SUN Blade 2500:



- If needed install the holding device delivered with the BCR on the desk or at the wall..

2.2. INSTALLATION AT A PCR SYSTEM

- Connect the scanner to one of the USB ports at the **rear side of those PC** used as User Terminal.
- If needed install the holding device delivered with the BCR on the desk or at the wall.

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2.3. SETTING-TO-WORK

- Reset the BCR to the factory default settings.

- Program to 'USB keyboard'.

All other programming depends on the local situation. Please refer to chapter '6. Programming' and the User's Guide of the manufacturer.

3. FAULT FINDING

- See User's Guide of the manufacturer.
- Check the functionality of the USB port the Barcode Reader is connected to. (BIOS, system configuration, software release)

4. REPLACEMENT

This Barcode Reader is supported only by the software and hardware mentioned in chapter 1.3 COMPATIBILITY.

5. ADJUSTMENT

N/A

6. PROGRAMMING

The BCR can simply be programmed by scanning special barcodes published in the User's Guide of the manufacturer.

Use the following sequence to program the BCR.

6.1. TYPICAL PROGRAMMING FOR PCR

Basic:

- Reset to factory defaults.
- Set to 'USB Keyboard (PC)' or 'Terminal ID' = 124.

Relevant additional programming:

- Keyboard country to be used (default: USA).
- Keyboard style (default: regular = Caps Lock key off)
- Add carriage return
- Trigger mode manual/ automatic (default: manual).
- Reread delay for automatic trigger mode (default: short).
- Good read delay (default: no delay).
- Symbology selection, e.g. Code 39.
- Minimum length of bar code.

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6.2. TYPICAL PROGRAMMING FOR DIGITALDIAGNOST

- **Factory Defaults**

Factory Default Settings

- **Language/Country selection**

Scan the following barcodes to select the required language:

1. Scan "**Program Keyboard Country**"
2. Scan from the next page (Program Chart): The **country code** (numeric).
3. Scan "**Save**"

Keyboard Country

Scan the **Program Keyboard Country** bar code below, then scan the numeric bar code(s) from the inside back cover, then the **Save** bar code to program the keyboard for your country. As a general rule, the following characters are not supported by the scanner for countries other than the United States:
@ | $ # { } [ ] = / ' \ < > ~

Program Keyboard Country

Country Code	Scan	Country Code	Scan
Belgium	1	Italy	5
Denmark	8	Norway	9
Finland	2	Spain	10
France	3	Switzerland	6
Germany/Austria	4	USA (Default)	0
Great Britain	7		

Save

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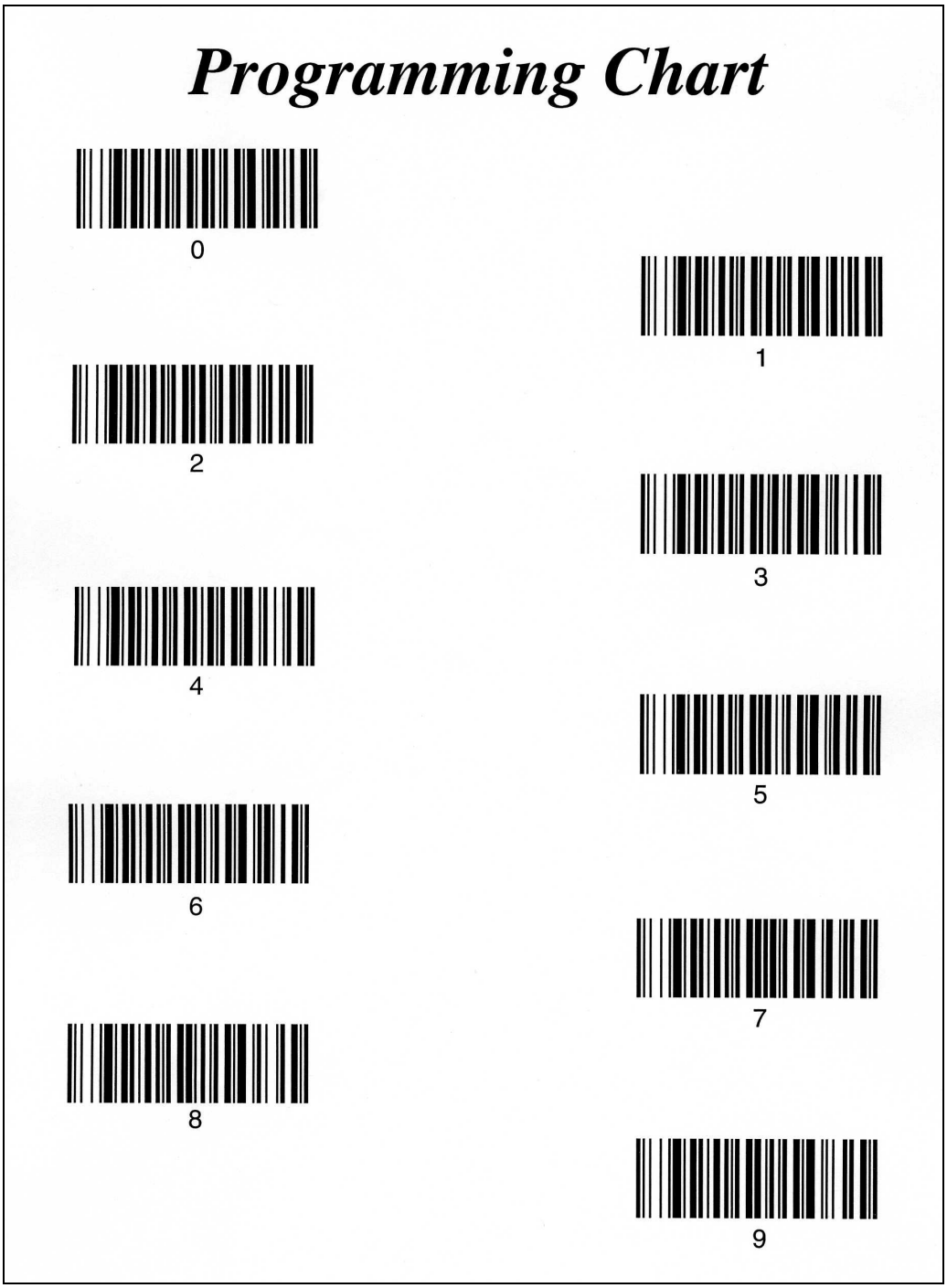
- **Programming Chart**



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- **Carriage Return**

If required a CR can be added to each scan. If inserted into a valid data field DigitalDiagnost will jump automatically to the next entry field. If this option is active: Scan this code if required.

To Add a Carriage Return Suffix to all Symbologies

Scan the following bar code if you wish to add a Carriage Return Suffix to all symbologies at once. This action first clears all current suffixes, then programs a carriage return suffix for all symbologies.

Add CR Suffix
All Symbologies

- **USB Keyboard selection**

* USB Keyboard (PC)

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7. ACCEPTANCE

7.1. WITH THE COMMAND TOOL OF A DIGITAL DIAGNOST

- Access the DigitalDiagnost service tool.
- Open a **command tool** (cmdtool).
- Open the **text editor** (type in: tx <return>).
- Scan a valid barcode e.g. a patient name.
- You may also scan “Show Revision” to show the software revision level of the scanner.
- Check that the scanned codes must be displayed in the text editor screen (make sure the cursor is positioned in the screen !!).
- Exit the **text editor** and the **command tool.**
- Exit the service tool.

7.2. WITH THE USER INTERFACE OF A DIGITAL DIAGNOST

- Open in the patient list the **Patient Data Entry form**.
- Place the cursor to any input-field, e.g. patient name.
- Scan a valid bar code.
- Check if the code is displayed and the cursor jumps into the next field.

7.3. AT PCR SYSTEMS

- Schedule a patient and scan typical bar codes usually used by the customer.
- Scan the number of a PCR cassette to be linked to a patient.
- Check if the codes are complete displayed and the cursor jumps into the next field.

7.4. SHOW SOFTWARE REVISION

Within a **text editor** the software revision can be shown.

Show Software Revision

Scan the bar code below to output the current software revision.

Show Revision

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7.4.1. Set of readable Bar Codes

NOTE

Some Barcodes may not display the first or last digit. This is a checksum indication and is correct.

Codabar

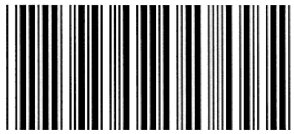
Code 128A

Code 128 A Table C

Code 128 B

Code 2 of 5 interleaved

Code 39



EAN13

EAN 8

UPC A

UPC E

Bookland ISBN

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